

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P884655

Luminaire Tested: **NVN-SB5C-827-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5C-827-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

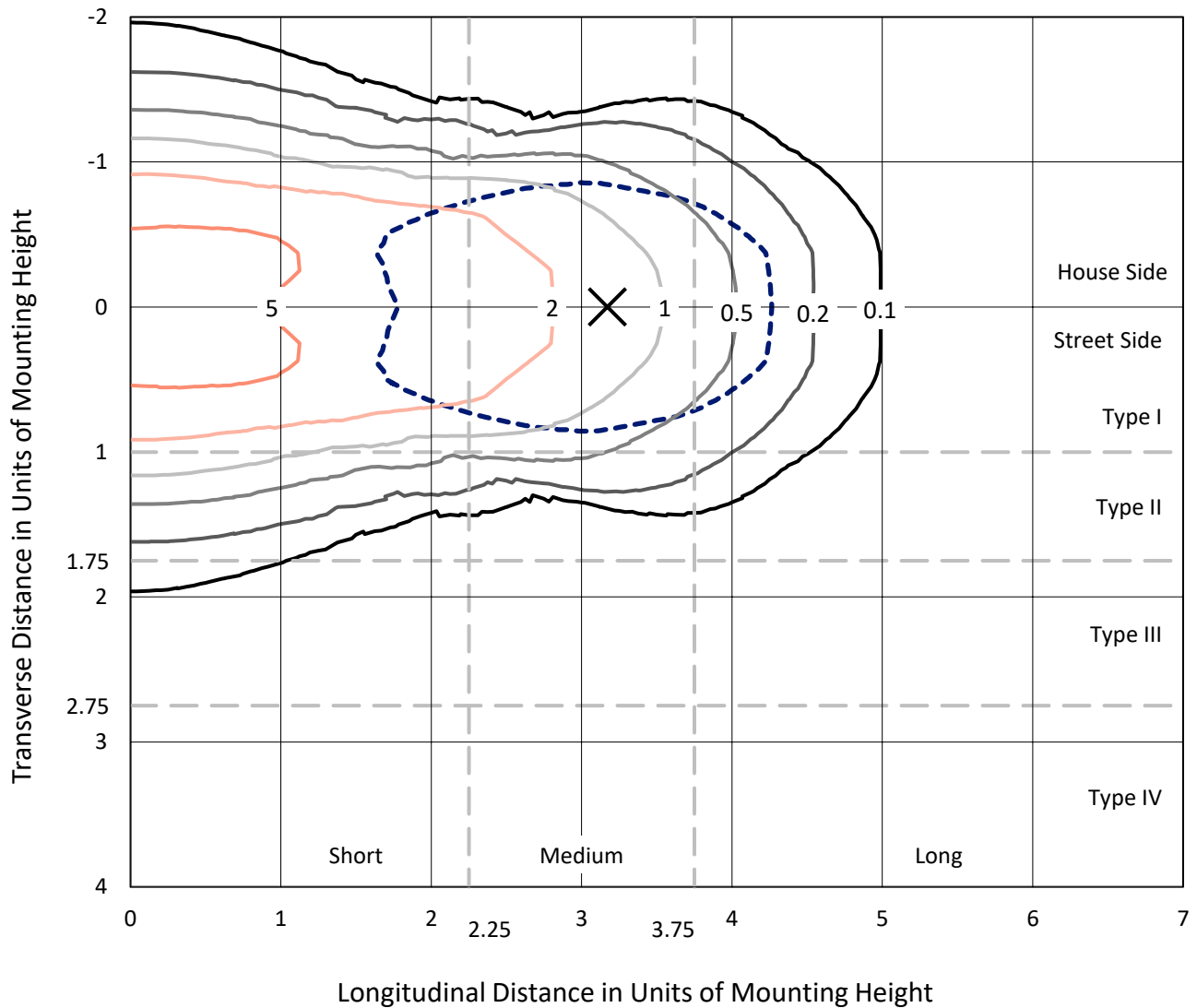
Lumens per Lamp: N/A  
Luminaire Lumens: 30545 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

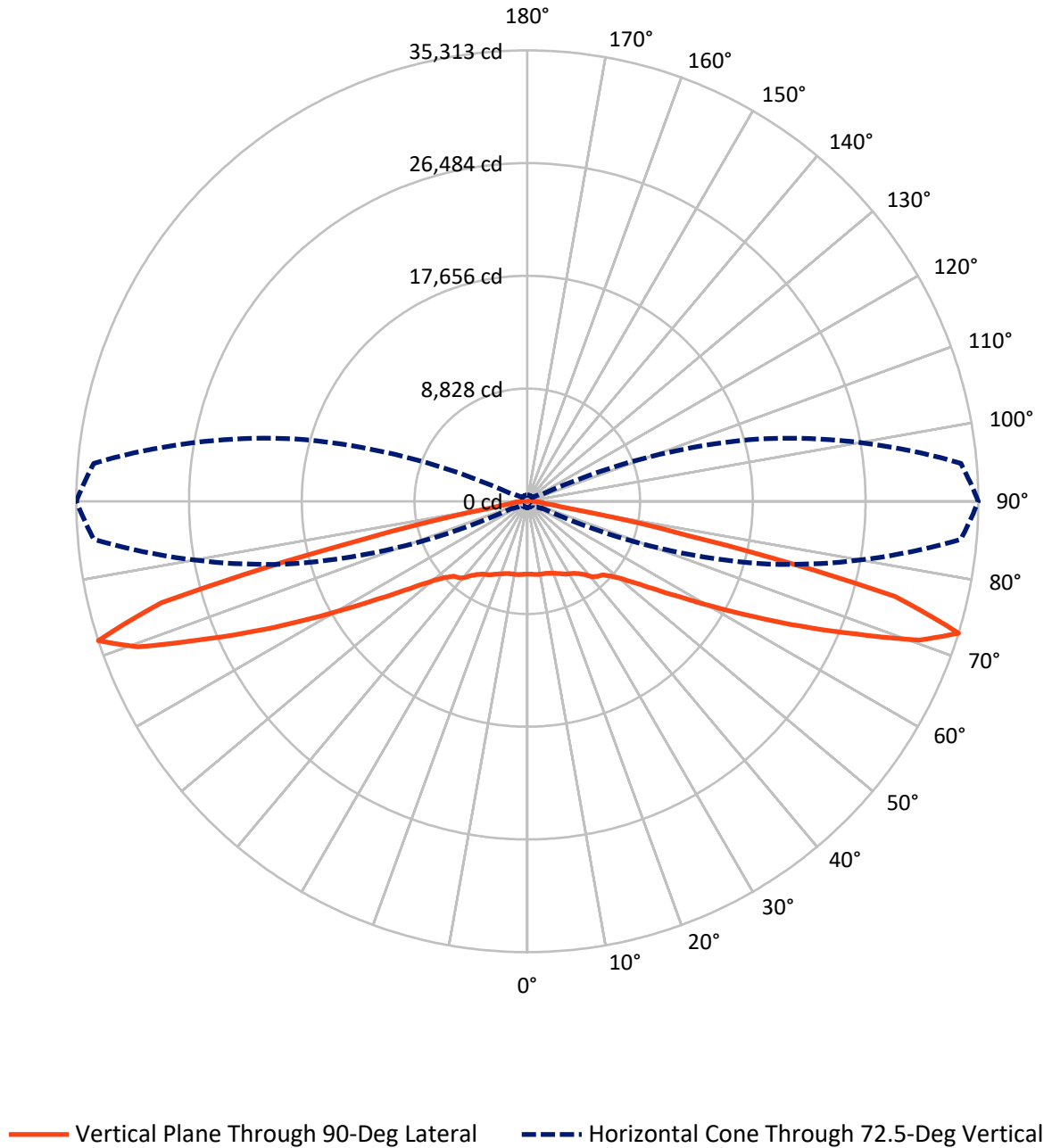
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15272.5	0.0	15272.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15272.5	0.0	15272.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30545.0	0.0	30545.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.4	1.8
10°-20°	1692.2	5.5
20°-30°	2821.5	9.2
30°-40°	3880.5	12.7
40°-50°	4739.1	15.5
50°-60°	5481.3	17.9
60°-70°	6535.5	21.4
70°-80°	4561.4	14.9
80°-90°	280.2	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30545.0	100.0
0°-180°	30545.0	100.0

**Coefficient of Utilization**



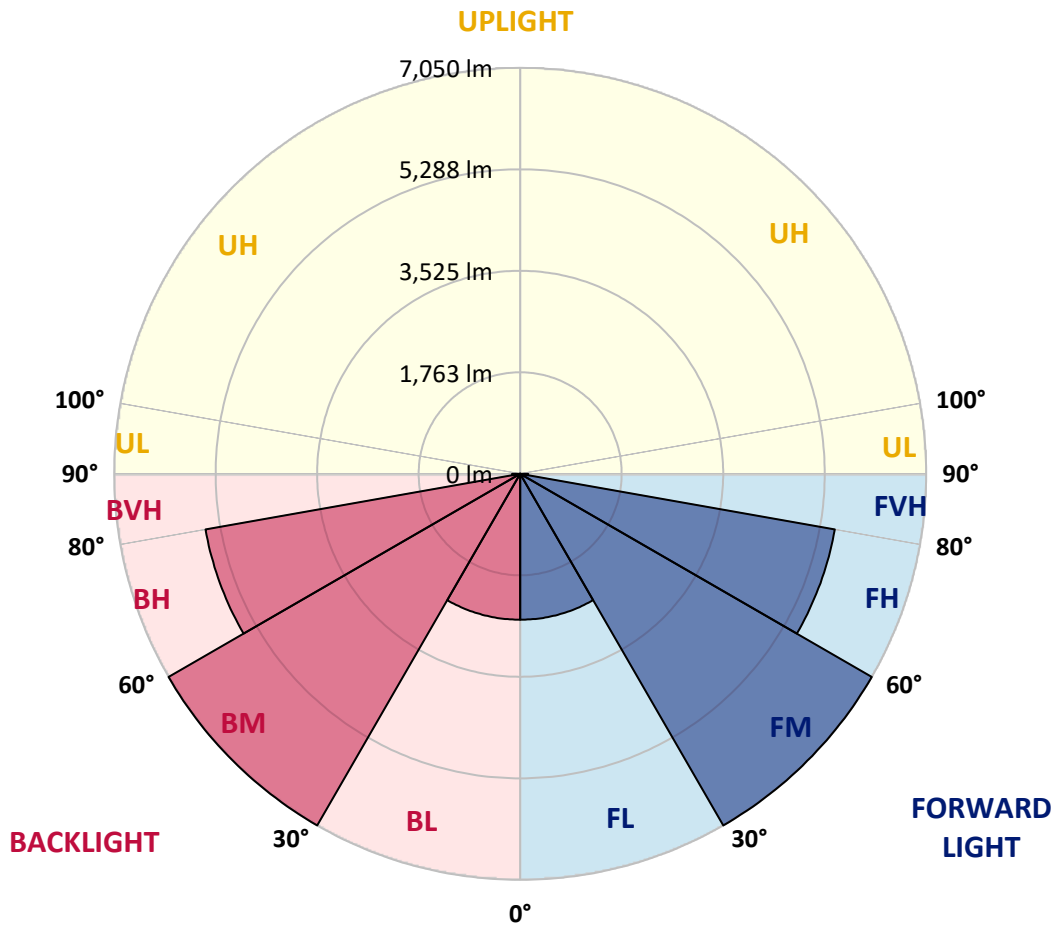
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2533.5	8.3			
FM (30°-60°)	7050.4	23.1			
FH (60°-80°)	5548.4	18.2			G3/7500
FVH (80°-90°)	140.1	0.5			G2/225
BL (0°-30°)	2533.5	8.3	B4/5000		
BM (30°-60°)	7050.4	23.1	B4/8500		
BH (60°-80°)	5548.4	18.2	B5		G5
BVH (80°-90°)	140.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5707.7	5707.7	5707.7	5707.7	5707.7	5707.7	5707.7	5707.7	5707.7	5707.7	5707.7
2.5°	5712.5	5719.0	5719.0	5714.1	5725.5	5715.8	5715.8	5710.9	5715.8	5710.9	5710.9
5°	5741.7	5749.9	5753.1	5751.5	5766.1	5758.0	5758.0	5751.5	5753.1	5748.2	5748.2
7.5°	5796.9	5808.3	5814.8	5822.9	5844.0	5834.3	5827.8	5808.3	5800.2	5787.2	5787.2
10°	5814.8	5827.8	5848.9	5891.1	5939.8	5941.4	5921.9	5873.2	5835.9	5806.7	5801.8
12.5°	5759.6	5777.5	5821.3	5907.3	6016.1	6059.9	6029.1	5947.9	5874.9	5822.9	5814.8
15°	5689.8	5709.3	5775.8	5905.7	6066.4	6168.7	6165.4	6058.3	5941.4	5860.2	5847.3
17.5°	5581.0	5600.5	5696.3	5878.1	6105.4	6274.2	6319.7	6209.3	6045.3	5936.5	5918.7
20°	5384.6	5402.5	5535.6	5790.4	6118.4	6386.2	6504.7	6407.3	6202.8	6055.0	6027.5
22.5°	5129.7	5157.3	5313.2	5639.5	6087.5	6503.1	6715.7	6649.2	6386.2	6181.7	6144.3
25°	4857.0	4886.2	5068.1	5454.4	6008.0	6587.5	6965.7	6923.5	6594.0	6339.1	6287.2
27.5°	4621.6	4652.5	4850.5	5271.0	5884.6	6620.0	7212.5	7233.6	6845.6	6512.8	6457.6
30°	4436.6	4465.8	4676.8	5123.3	5725.5	6587.5	7428.4	7574.5	7102.1	6663.8	6584.3
32.5°	4233.7	4271.0	4493.4	4943.1	5537.2	6509.6	7616.7	7943.0	7399.2	6826.1	6725.5
35°	3977.2	4011.3	4245.0	4696.3	5290.5	6384.6	7774.2	8352.1	7824.5	7072.9	6960.9
37.5°	3665.5	3698.0	3930.1	4387.9	5045.3	6209.3	7894.3	8813.1	8331.0	7428.4	7279.0
40°	3352.2	3383.0	3600.6	4043.7	4751.5	5985.2	7936.5	9264.4	8912.1	7917.0	7757.9
42.5°	3064.9	3092.5	3292.1	3704.5	4422.0	5699.5	7881.3	9657.2	9433.2	8257.9	8053.4
45°	2800.3	2824.6	3001.6	3386.3	4079.4	5352.1	7715.7	10079.3	10053.3	8501.4	8225.5
47.5°	2498.3	2522.7	2706.1	3077.8	3736.9	4944.7	7434.9	10494.9	10915.3	9053.4	8735.2
50°	2129.8	2150.9	2339.2	2722.3	3381.4	4511.3	7045.3	10821.2	12003.0	9889.4	9490.0
52.5°	1693.1	1715.9	1899.3	2282.4	2959.3	4045.4	6532.3	11033.8	13259.4	11110.1	10618.3
55°	1259.7	1275.9	1435.0	1779.2	2436.6	3514.5	5889.5	11093.9	14684.7	12778.9	12163.7
57.5°	913.9	923.7	1025.9	1282.4	1847.4	2850.6	5108.6	10938.1	16381.1	14918.5	14144.1
60°	740.2	743.5	774.3	888.0	1284.1	2100.6	4165.5	10402.3	18222.0	17676.5	16700.9
62.5°	672.1	672.1	680.2	711.0	868.5	1386.3	3024.3	9292.0	20195.9	21161.8	19855.0
65°	625.0	625.0	628.2	642.8	685.0	883.1	1909.0	7483.6	21859.9	25244.5	23592.0
67.5°	582.8	584.4	582.8	587.6	612.0	652.6	1107.1	5168.7	22755.9	29474.9	27690.9
70°	538.9	542.2	534.1	534.1	553.6	555.2	693.2	2834.3	22012.5	33020.3	32551.2
72.5°	487.0	491.9	478.9	475.6	490.2	483.8	521.1	1360.4	18898.9	34078.7	35312.5
75°	441.5	448.0	418.8	410.7	410.7	405.8	423.7	698.0	12265.9	27799.7	29734.7
77.5°	401.0	414.0	366.9	340.9	334.4	319.8	345.8	426.9	5365.1	13051.6	12780.5
80°	331.2	349.0	301.9	271.1	259.7	243.5	272.7	298.7	1595.7	3030.8	2902.5
82.5°	246.7	254.9	214.3	193.2	183.4	172.1	204.5	207.8	519.5	1073.0	1212.6
85°	157.5	160.7	131.5	113.6	108.8	103.9	129.9	113.6	198.0	788.9	1146.1
87.5°	55.2	63.3	50.3	45.5	48.7	40.6	60.1	34.1	55.2	556.8	689.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)